

Amendments to the Claims

This listing of claims will replace all prior versions and listings of claims in the application:

Listing of Claims:

1-21. (Canceled)

22. (Currently Amended) An antenna, comprising:

a monolithic first conductor having a pair of opposed parallel surfaces and a cable guide arranged inside the first conductor and oriented in a direction substantially parallel to that of the opposed parallel surfaces, wherein the cable guide extends in a continuous manner along an entire length of the first conductor and is either formed within or attached to the first conductor, such that no surface of the cable guide is penetrated by one or more mounting holes formed within the pair of opposed parallel surfaces of the first conductor;

a length of insulated wire or cable arranged within the cable guide, wherein the wire or cable is maintained by the cable guide in a straight orientation along and within the first conductor; and

at least one conductive antenna element attached to one of the opposed parallel surfaces of the first conductor via one of the mounting holes.

23. (Original) The antenna of claim 22, wherein the antenna element is oriented in a direction substantially perpendicular to that of the first conductor.

24. (Original) The antenna of claim 22, wherein the cable guide is adapted to maintain, throughout the length of the conductor, an inner conductor of the insulated wire or cable within about one millimeter of a fixed lateral position within the guide.

25. (Original) The antenna of claim 24, wherein the cable guide is adapted to maintain the inner conductor within about 0.25 millimeters of the fixed lateral position.

26. (Original) The antenna of claim 22, wherein the length of insulated wire comprises an inner conductor surrounded by a dielectric sleeve.

27. (Original) The antenna of claim 26, wherein the length of insulated wire further comprises an outer conductor surrounding the dielectric sleeve.

28. (Original) The antenna of claim 22, wherein the first conductor comprises a first conductive tube.

29. (Original) The antenna of claim 28, wherein the first conductive tube has a rectangular cross-section.

30. (Original) The antenna of claim 28, wherein the cable guide comprises a second tube attached to an inner wall of the first tube.

31. (Original) The antenna of claim 22, wherein the first conductor comprises a conductive bar, and the cable guide comprises an opening formed within the bar.

32. (Original) The antenna of claim 22, further comprising:

a second conductor having a pair of opposed parallel surfaces, wherein an inner conductor of the length of insulated wire or cable is electrically coupled to an end of the second conductor; and

at least one conductive antenna element attached to one of the opposed parallel surfaces of the second conductor.

33. (Original) The antenna of claim 32, wherein the first and second conductors further comprise first and second convex surfaces, wherein the first convex surface bridges between first ends of the pair of opposed parallel surfaces of the first conductor, and the second convex surface bridges between first ends of the pair of opposed parallel surfaces of the second conductor.

34. (Original) The antenna of claim 33, wherein the first and second conductors are arranged such that their respective opposed parallel surfaces are aligned, and such that the first and second convex surfaces face away from one another.

35. (Original) The antenna of claim 33, wherein the first and second conductors further comprise first and second concave surfaces, wherein the first concave surface bridges between other ends of the pair of opposed parallel surfaces of the first conductor, wherein the second concave surface bridges between other ends of the pair of opposed parallel surfaces of the second conductor, and wherein the first and second conductors are arranged such that the first and second concave surfaces face each other.

36. (Original) An antenna, comprising:

a conductor having a pair of opposed parallel surfaces, a convex surface connecting respective first ends of the pair of opposed parallel surfaces to one another, and an opening formed within the conductor in a direction substantially parallel to that of the opposed parallel surfaces;

a length of insulated wire or cable arranged within the opening; and

at least one conductive antenna element attached to one of the opposed parallel surfaces of the conductor.

37. (Original) The antenna of claim 36, wherein the antenna element is oriented in a direction substantially perpendicular to that of the conductor.

38-50. (Canceled)

51. (New) The antenna of claim 1, wherein the cable guide is adapted to completely surround the insulated wire or cable in directions perpendicular to a longitudinal axis of the cable guide.

52. (New) The antenna of claim 1, wherein the cable guide is adapted to at least partially surround the insulated wire or cable in directions perpendicular to a longitudinal axis of the cable guide while maintaining a physical separation between the insulated wire or cable and screws or other attachment means inserted within the mounting holes.